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## RESPONSE TO REQUEST FOR INFORMATION

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**DATE:** March 8, 2016

**RFI No.** 003

**PROJECT:** Waitsfield BRF 013-4(39) - Bridge No. 177  
VT Route 100 over Mad River

**TO:** Rob Young

**FROM:** David Kull

**RE:** RFI #3. Back Wall Reinforcing Layout

McFarland Johnson (MJ) has reviewed the question in RFI No. 003 (received on 3/7/2016), and we offer the following response:

1. **Question:** JPC requests confirmation on the intended detailing approach for the layout of the reinforcement in the back walls

**Response:** MJ has reviewed the attached details, and agree with the reinforcing clearances as detailed in the proposed alternatives. MJ recommends that the transverse reinforcing above the grouted splice sleeve connectors be placed on the outside of the vertical reinforcing steel (see attached sketch).

# J. P. CARRARA & SONS, INC.

PRECAST / PRESTRESSED CONCRETE PRODUCTS

## REQUEST FOR INFORMATION

TO:	FROM:
Carl Gleason	Mike Davis
COMPANY:	DATE:
A.L. St. Onge	3/7/16
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
-	4
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
	<b>RFI #3</b>
RE:	
<b>Waitsfield BRF 013-4(39) - Bridge No. 177; VT 100 over Mad River</b> Waitsfield, VT	

☐ URGENT    ☒ FOR REVIEW    ☒ PLEASE COMMENT    ☐ PLEASE REPLY    ☐ FOR YOUR USE

PLEASE PROVIDE AND/OR CLARIFY THE FOLLOWING:

### RFI #3: Back Wall Reinforcement Layout

Contract drawings, including the attached detail excerpt on sheet 45 of 69, show 2 ½" clear cover from the face of back wall concrete to the edge of the splice sleeves, however, transverse reinforcement is shown on the outside of the sleeves and U-shaped reinforcement at the top of the back walls is shown outside of the transverse bars which violates the 3" cover requirement stated in the contract drawings. JPC assumes that the contract drawing clear cover of 3" on reinforcement applies to the U-shaped bars, and other reinforcement is laid out inside of this reinforcement which results in grouted splice sleeves that are laid out only 5 ½" center to center and only 11 ½" center to center for Abutment #2 and Abutment #1 respectively, as shown on the attached.

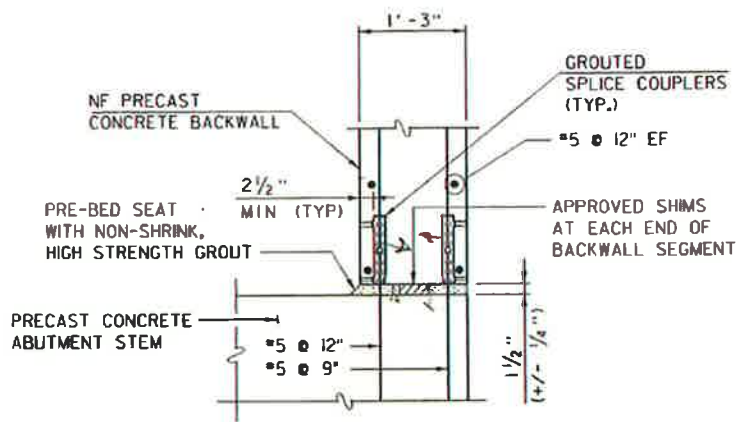
JPC submits the attached back wall reinforcing sections for Abutment #2 and Abutment #1 to show the reinforcement layout in back walls based on the contract drawings and to propose alternative reinforcement layouts for each case. The alternative proposals place the transverse reinforcement inside of the splice sleeves and increase the center to center spacing between splice sleeves which may be more desirable for design.

JPC requests confirmation on the intended detailing approach for the layout of reinforcement in the back walls.

Please contact us at 802-388-6363 with any questions or to discuss.

2464 CASE STREET, MIDDLEBURY, VERMONT 05753

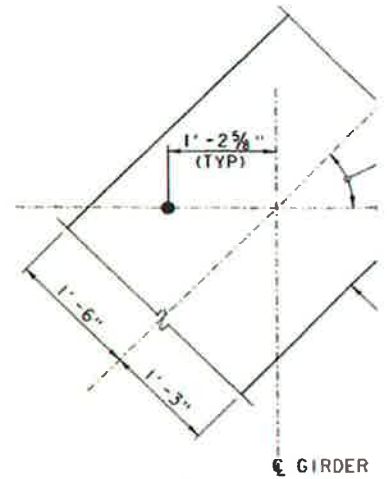
T (802)388-6363    F (802)388-9010



**BACKWALL TO ABUTMENT STEM  
CONNECTION DETAIL**

SCALE: 1" = 1'-0"

SHT. 45 OF 69



**ANCHOR BOLT LAY**

SCALE: 1" = 1'-0"

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Waitsfield VT Bridge  
JPC RFI #3 Attachement

Contract Drawing 45 of 69 excerpt

9" WIDE SEAL WRAP OR  
EZ-WRAP RUBBER FULL  
HEIGHT OF FOOTING  
(WITHIN WRAP LIMITS)

1" MIN  
(TYP)

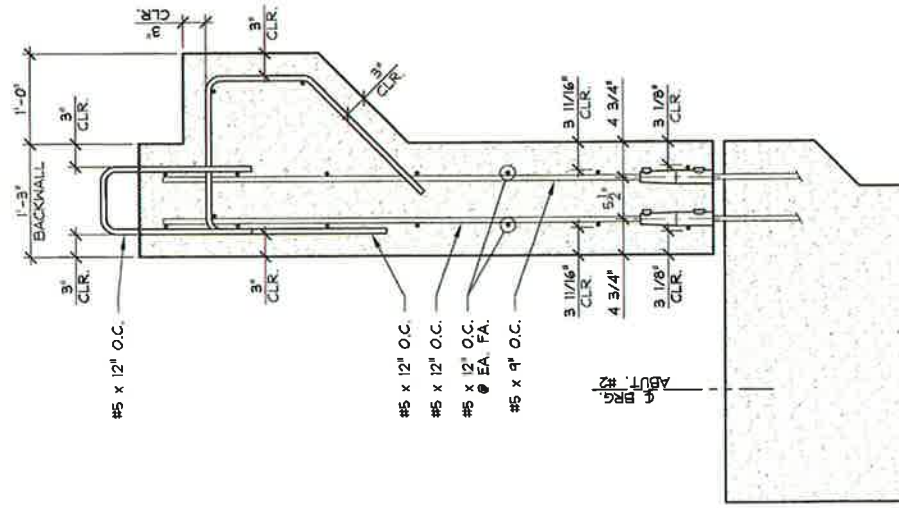
APPLY A THIN  
(0.02 TO 0.04 IN.)  
LAYER OF APPROVED  
EPOXY BONDER

**ABUTMENT STEM MATCH (**

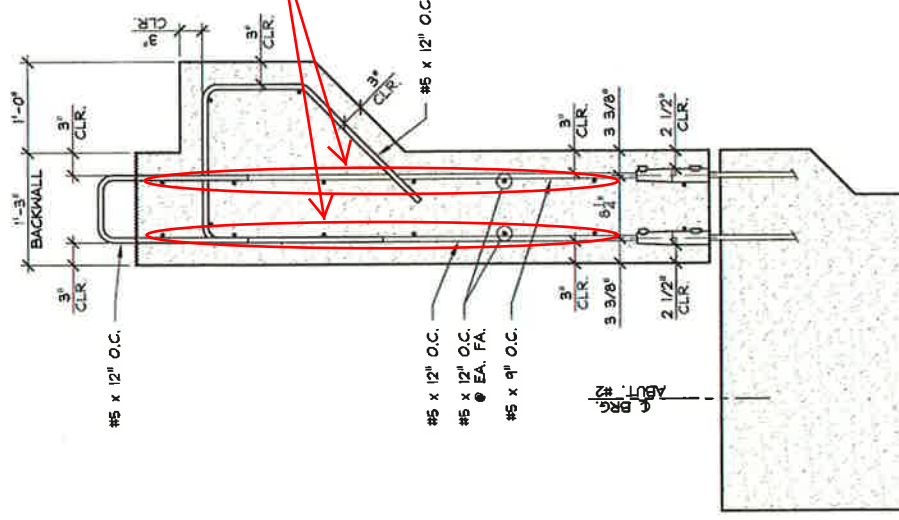
SCALE: 1/2" = 1'-0"

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#23480-016

Waitsfield VT Bridge  
JPC RFI #3 Attachment  
Abutment #2 Backwall  
Reinforcement Section



BACKWALL REINF. SECTION (ABUT. #2)  
(PER CONTRACT DRAWINGS) 3/4" = 1'-0"



BACKWALL REINF. SECTION (ABUT. #2)  
(PROPOSED ALTERNATIVE) 3/4" = 1'-0"

Waitsfield VT Bridge  
JPC RFI #3 Attachment  
Abutment #1 Backwall  
Reinforcement Section

